

METHOD, SYSTEM, AND DATA STRUCTURES FOR USING METADATA  
IN UPDATING DATA IN A STORAGE DEVICE

ABSTRACT

Disclosed is a method, system, and data structures for updating data in a storage  
5 device. An update to one or more blocks of customer data at addresses in the storage  
device is received. For each block of data to update, metadata is generated indicating the  
address of the block in the storage device and an error checking code that is capable of  
being used to determine whether the customer data in the block has changed. For each  
block of data to update, the block of data to update and the metadata for the block are  
10 written to cache. Further, for each block of data to update, the block of data and the  
metadata are transferred for the block from the cache to the storage device. The metadata  
may be used during power loss and recovery.

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